APPENDIX B

EXPLANATION OF METHODOLOGY

SUMMARY OF MEASUREMENTS

EXPLANATION OF METHODOLOGY

SECTION

1 NII Band Worksheet

see Appendix C

This Spreadsheet titled the "N2-X Worksheet" was designed primarily to quickly collect data and provide information for all aspects of the Radio's performance. From operation in the field to how it compares with the limits specified by Regulatory Agencies worldwide. With all the possible equipment configurations and variations with respect to a specific application in the field. It was necessary to generate a tool that compiles all the information required to support modifications and design changes necessary to delivery superior performance for which it was designed. This tool should enable the "Factory Tuned Selection" process to operate smoothly. This is a SAMPLE of how the data was extrapolated the actual submittal data is located in the appendices to follow. Hopefully, it will be clear as to how the selections were determined for acceptance and Certification...

N2X 5.3 GHz NII Radio

Date: 6/24/09
File Name: 5.3GHzSET01
Tested By: Suresh
RBW: 1 MHz
VBW: 30 kHz
Span: 1 MHz

CHANNEL 1 =	5.2608 GHz
26 dB BW(MHz) =	12.63
PTP Limit =	22.01
Antenna gain (dBi) =	17.5
Ant. gain - 6dB(dBi) =	11.5
PTP Limit - Ant. Gain(dBi) =	10.51

Two things needs to be entered here. The 26 dB Bandwidth in MHz and the gain for the specific Antenna being investigated. It will make the adjustments to the actual calculated value, if required.

FREQUENCY (GHz)	Analyzer Reading (dBm)	POWER OUT Pout (mW)
5.2508	-36.92	0.000
5.2518	-39.37	0.000
5.2528	-34.62	0.000
5.2538	-30.33	0.001
5.2548	-19.80	0.013
5.2558	-8.33	0.147
5.2568	-1.62	0.689
5.2578	0.33	1.079
5.2588	1.33	1.358
5.2598	1.00	1.259
5.2608	2.50	1.778
5.2618	1.44	1.393
5.2628	0.83	1.211
5.2638	-0.17	0.962
5.2648	-2.50	0.562
5.2658	-9.33	0.117
5.2668	-29.83	0.000
5.2678	-32.00	0.001
5.2688	-36.67	0.000
5.2698	-40.83	0.000
5.2708	-38.00	0.000
		0.00
	Ptotal (mW) =	10.58

PEAK POWER Measurement = 14.6 HP8900C

Peak Power Measurements were taken with a Peak Power Meter for reference only.

After the frequency range for the desired band has imported for the 1 MHz steps, The "Raw Readings" data is placed into the center column. The third column titled "POWER OUT", converts the reading in to milliwatts and the SUM is then calculated in the bottom cell. Representative of the Peak Power Total in milliwatts.

The 26 dB bandwidth measurement is then entered in the upper right side above this table as well as the gain (dBi) for the particular antenna you wish to evaluate against the limits.

The program will allow you to take in consideration any Loss. When the loss has been calculated insert the number here and that number will be subtracted when working out the Ptotal measurement in dB milliwatts. All measurements were taken with a 6 ft. coaxial cable with measured loss of 2.6 dB.

Insertion Loss (dB) =	Correction Factor =	2.600

SUMMARY	MODEL: 6.5 DFPS.S-52		
FLAT PANEL	Measurement	Limits	DELTA
Ptotal (mW)	1.15	22.00	-20.85
Ptotal (dBm)	-1.99	-0.10	-1.89
EIRP (dBm)	26.11	27.00	-0.89

Notes: The above measurements made at the highest Output Power setting w/ lowest antenna gain. (-) below LIMIT

Please refer to Chart PTP 1.0 for test results for other Antenna configurations. (+) above LIMIT

This is where the Peak Transmit Power (PTP) LIMIT is calculated. That LIMIT is then transferred down to the SUMMARY tables below (section 2)

2 Antenna Summary

With the table above, after the "raw data" has been entered in the middle column for each of the Power settings. Based on the entered 26 dB bandwidth measurement and the power level, the program will do the calculations for that particular power output and the antenna gain, and then stores the results in the far right column titled "DELTA".
This is actually a "measurement versus limit" or specification. The tables have already been configured for the applicable antenna gain in dBi. The program calculates the difference and posts the data accordingly.

SUMMARY	MODEL: SSP2-52A		
PARABOLIC	Measurement	Limits	DELTA
Ptotal (mW)	10.58	22.01	-11.44
Ptotal (dBm)	7.64	-0.09	7.73
EIRP (dBm)	29.74	27.00	2.74

SUMMARY	MODEL: DFPS.S-52		
FLAT PANEL	Measurement	Limits	DELTA
Ptotal (mW)	5.45	22.00	-16.55
Ptotal (dBm)	4.76	-0.10	4.87
EIRP (dBm)	32.86	27.00	5.86

SUMMARY	MODEL: DFPS1-52		
FLAT PANEL	Measurement	Limits	DELTA
Ptotal (mW)	2.65	21.98	-19.33
Ptotal (dBm)	1.63	-0.12	1.75
EIRP (dBm)	29.73	27.00	2.73

SUMMARY	MODEL: DFPS 2-52		
FLAT PANEL	Measurement	Limits	DELTA
Ptotal (mW)	1.15	22.00	-20.85
Ptotal (dBm)	-1.99	-0.10	-1.89
EIRP (dBm)	26.11	27.00	-0.89

The last column on the right hand side of the Antenna Summary (sec. 2) titled "DELTA" takes the measurement and compares the reading to the referenced specification. The values are in reference to limits. This data is transferred and stored in the next in the section where it is placed in the allocated table based on the power setting which the measurement was recorded.

The data is traceable by color as well, if a colored copy can be made available or via a colored computer monitor.

SSP2 -52A — High Power Setting
DFPS.S-52 — Low Power Setting
DFPS1-52 — Low/Medium Setting
DFPS 2-52 — High/Medium Setting

DATA COLLECTION

3 SWITCH SET Summary

CHANNEL REFERENCE TABLES

Parabolic Antenna SSP2-52A

5.3 GHz

CHANNEL 1 — Reference Table

POWER SWITCH SET	SW 1	SW 2	SW 3	SW 4
26 dB BW(MHz) =	12.63	12.58	12.54	12.58
PTP Limit =	22.01	22.00	21.98	22.00
Antenna gain (dBi) =	28.1	28.1	28.1	28.1
Ant. gain - 6dB(dBi) =	22.1	22.1	22.1	22.1
PTP Limit - Ant Gain(dBi) =	-0.09	-0.10	-0.12	-0.10
ADDRESS SET	**II**	**OO**	**OI**	**IO**
Ptotal (mW)=	10.58	5.45	2.65	1.15
Peak Power (dBm)=	14.50	12.20	9.20	6.30

26 dB Bandwidth measurement is recorded and entered in both tables, the "NII Worksheet" and the "SWITCH SET Summary" require that this be entered manually. This is how the "subset tables" get set up with the appropriate tracking to the allocated cells for the transfer of information.

After the "Raw Readings" are have been inserted in the "NII worksheet" and has made the conversion to a value, in milliwatts, at the bottom of that column, place that value in the applicable cell based on the power level and the Switch setting.

RESULTS VERSUS LIMITS - Single Antenna

POWER SWITCH SET	SW 1	SW 2	SW 3	SW 4
Ptotal (mW)	-11.44	-16.55	-19.33	-20.85
Ptotal (mW)	7.73	4.87	1.75	-1.89
Ptotal (dBm)	2.74	5.86	2.73	-0.89

Basically, this set of calculated measurements is what is sent to the Final Data Table located in Section 6 of this document. Initially when this method was originated it was not clear as to what we were going to want to be looking at as far as the Final Data is concerned. This "test matrix" covers most of everything with the exception to the plots which are located in ***Appendix D***

4 Channel Data Storage

Compiled Results
4 ANTENNAS @ 4 POWER LEVELS

Data ready for final Data Sheet

			SW 1	SW 2	SW 3	SW 4
Parabolic	28.1 dBi	SSP2-52A				
		Ptotal (mW)	-11.44	-16.55	-19.33	-20.85
		Ptotal (dBm)	7.73	4.87	1.75	-1.89
		EIRP (dBm)	2.74	5.86	2.73	-0.89
Flat Panel	27.5 dBi	DFPD2-52				
		Ptotal (mW)	-11.43	-16.55	-19.33	-20.85
		Ptotal (dBm)	7.13	4.27	1.15	-2.49
		EIRP (dBm)	8.14	5.26	2.13	-1.49
Flat Panel	23.0 dBi	DFPD1-52				
		Ptotal (mW)	-11.43	-16.55	-19.33	-20.85
		Ptotal (dBm)	2.63	-0.23	-3.35	-2.49
		EIRP (dBm)	3.64	0.76	-2.37	-1.49
Flat Panel	17.5 dBi	DFPS.5-52				
		Ptotal (mW)	-11.43	-16.55	-19.33	-20.85
		Ptotal (dBm)	-2.87	-5.73	-8.85	-12.49
		EIRP (dBm)	-1.86	-4.74	-25.37	-28.99

DATA GETS COMBINED WITH OTHER CHANNELS TESTED
REVIEW FINAL RESULTS IN THE FOLLOWING TABLE

This is basically the holding area for all the Channel measurements versus frequency. Up until now, we have been refering to the data and the steps in which to import the data for a single channel. You need to move to the next channel until all the channels of interest have been entered. Then the independant channel data is stored in this table

The results are sent on their way to a spreadsheet which displays all the results where it can be seen easily the areas of concern, with reference to specifications, and those issues can be addressed at that time.

5 The Calculations Used

...time to MOVE ON TO ANOTHER CHANNEL

REFERENCE CALCULATIONS

LIMITS

PTP Limit=	11dBm+10Log(26dB BW)
Pout (mW)=	10Log(Analyzer Reading)/10
Ptotal (mW)=	Sum(Pout mW)
Ptotal (dBm)=	10Log(Ptotal mW)
EIRP (dBm)=	Ptotal (dBm) + Ant. Gain -6dBm

Antenna Type(s)

Manufacturer: Gabriel Electronics

DESCRIPTION	MODEL	GAIN (dBi) LOW	MID	HIGH
			N/A	N/A
2' Parabolic Dish	SSD2-52	28.1	N/A	N/A
			N/A	N/A
2' Flat Panel	DFPS2-52	27.5	N/A	N/A
			N/A	N/A
1' Flat Panel	DFPS1-52	23.0	N/A	N/A
			N/A	N/A
.5' Flat Panel	DFPS.5-52	17.5	N/A	N/A

SUMMARY OF MEASUREMENTS

FINAL SUMMARY TABLE

FINAL CALCULATED MEASUREMENTS

PTP TABLE 1

EXAMPLE

FAILING RESULTS	-19.33
	1.75
	2.73
PASSING RESULTS	-20.85
	1.89
	0.83

WIRELESS, INC. — **N2-X**

5.3 GHz CHANNEL 1

	Parabolic	SSP2-52A	SW 1	SW 2	SW 3	SW 4
28.1 dBi	DATA	Pfotal (mW)	-11.44	-16.55	-19.33	-20.85
	VERSUS	Pfotal (dBm)	7.73	4.87	1.75	-1.09
	LIMIT	EIRP (dBm)	-7.86	5.86	2.73	-0.09

RESULTS SET 1 — SW 4 — TOTAL PASS 1

	Flat Panel	DFPD2-52	SW 1	SW 2	SW 3	SW 4
27.5 dBi	DATA	Pfotal (mW)	-11.43	-16.55	-19.33	-20.85
	VERSUS	Pfotal (dBm)	7.13	4.27	1.15	-2.49
	LIMIT	EIRP (dBm)	8.14	5.26	2.13	-1.49

SW 4 — TOTAL PASS 1

	Flat Panel	DFPD1-52	SW 1	SW 2	SW 3	SW 4
23.0 dBi	DATA	Pfotal (mW)	-11.43	-16.55	-19.33	-20.85
	VERSUS	Pfotal (dBm)	2.63	-6.23	-3.35	-2.49
	LIMIT	EIRP (dBm)	3.64	0.76	-2.37	-1.49

SW 3, SW 4 — TOTAL PASS 2

	Flat Panel	DFPS.5-52	SW 1	SW 2	SW 3	SW 4
17.5 dBi	DATA	Pfotal (mW)	-11.43	-16.55	-19.33	-20.85
	VERSUS	Pfotal (dBm)	-2.87	-5.73	-8.85	-12.49
	LIMIT	EIRP (dBm)	-1.86	-4.74	-25.37	-28.99

SW 1, SW 2 — TOTAL PASS 4

( ) below LIMIT ( ) above LIMIT

RESULTS/ COMMENTS

This is just a SAMPLE of the table for "proof of concept" purposes only.

After all the measurements have been taken and the "RAW" readings have been imported into the appropriate column on the "Fill Worksheet", section 1 of this document, the data has now been run through the calculations process and has been extrapolated for each of the four (4) Antennas at each of the four(4) power settings. The data now needs to be compiled and this PTP Table 1 is what we come up with.

The table is divided into three sections representing the three (3) channels investigated for this submittal. The format of the data is configured differently than in the previous tables basically to encompass the entire data package for all the channels. It is displayed from the highest power setting to the lowest, where as SW1 being the highest and SW4 being the lowest output power for Channels 1, 5 and 8. The antennas were configured in a similar fashion with the highest gain antenna at the top of each of the sections representing 1 of the 3 channels. The data has been compiled so that a each antenna has it's own table. Formatting the results in a "antenna specific" type of arrangement. A different format than what was previously displayed but helpful to see the correlation between the various power levels and the different antenna gain(s).

5.3 GHz CHANNEL 5 — **N2-X**

	Parabolic	SSP2-52A	SW 1	SW 2	SW 3	SW 4
28.1 dBi	RESULTS	Pfotal (mW)	-10.41	-15.80	-19.20	-20.87
	VERSUS	Pfotal (dBm)	8.11	5.41	2.01	-1.78
	LIMIT	EIRP (dBm)	3.16	6.47	3.09	-0.71

SW 4 — TOTAL PASS 1

	Flat Panel	DFPD2-52	SW 1	SW 2	SW 3	SW 4
27.5 dBi	RESULTS	Pfotal (mW)	-10.42	-15.80	-19.20	-20.87
	VERSUS	Pfotal (dBm)	7.50	4.81	1.41	-2.38
	LIMIT	EIRP (dBm)	8.56	5.87	2.49	-1.31

SW 4 — TOTAL PASS 1

	Flat Panel	DFPD1-52	SW 1	SW 2	SW 3	SW 4
23.0 dBi	RESULTS	Pfotal (mW)	-10.42	-15.80	-19.20	-20.87
	VERSUS	Pfotal (dBm)	3.00	0.31	-3.09	-2.38
	LIMIT	EIRP (dBm)	4.06	1.37	-2.01	-1.31

SW 3, SW 4 — TOTAL PASS 2

	Flat Panel	DFPS.5-52	SW 1	SW 2	SW 3	SW 4
17.5 dBi	RESULTS	Pfotal (mW)	-10.42	-15.80	-19.20	-20.87
	VERSUS	Pfotal (dBm)	-2.50	-5.10	-8.59	-12.38
	LIMIT	EIRP (dBm)	-1.44	-4.13	-25.01	-28.81

SW 1, SW 2 — TOTAL PASS 4

( ) below LIMIT ( ) above LIMIT

On the Final Data submitted, the column on the right will specify which antennas are to be considered for Certification and for what power levels we would like the Grant to included.

5.3 GHz CHANNEL 8 — **N2-X**

Refer to **Appendix C** and **D** for the final results and the selection of the antennas, specifically being submitted for certification at this time.

	Parabolic	SSP2-52A	SW 1	SW 2	SW 3	SW 4
28.1 dBi	RESULTS	Pfotal (mW)	-12.00	-16.13	-19.64	-21.30
	VERSUS	Pfotal (dBm)	7.28	5.05	1.54	-2.23
	LIMIT	EIRP (dBm)	2.66	6.53	3.00	-0.74

SW 4 — TOTAL PASS 1

	Flat Panel	DFPD2-52	SW 1	SW 2	SW 3	SW 4
27.5 dBi	RESULTS	Pfotal (mW)	-11.99	-16.13	-19.64	-21.30
	VERSUS	Pfotal (dBm)	6.68	4.45	0.94	-2.83
	LIMIT	EIRP (dBm)	8.07	5.93	2.40	-1.34

SW 4 — TOTAL PASS 1

	Flat Panel	DFPD1-52	SW 1	SW 2	SW 3	SW 4
23.0 dBi	RESULTS	Pfotal (mW)	-11.99	-16.13	-19.64	-21.30
	VERSUS	Pfotal (dBm)	2.18	-6.05	-3.56	-2.83
	LIMIT	EIRP (dBm)	3.57	1.43	-2.10	-1.34

SW 3, SW 4 — TOTAL PASS 2

	Flat Panel	DFPS.5-52	SW 1	SW 2	SW 3	SW 4
17.5 dBi	RESULTS	Pfotal (mW)	-11.99	-16.13	-19.64	-21.30
	VERSUS	Pfotal (dBm)	-3.32	-5.95	-9.06	-12.83
	LIMIT	EIRP (dBm)	-1.93	-4.07	-25.10	-28.84

SW 1, SW 2 — TOTAL PASS 4

( ) below LIMIT ( ) above LIMIT

Summary of Measurements

Tables used for Final Data

5.3 "RAW" Data

Channel 1

5.3 GHz Date: 8/6/99

UWI BAND	FINAL DATA		5.3 GHz Channel 1					8/23/99
BW(MHz)=	12.63		12.58		12.54		12.58	REV. C
5.3008	Po (1)	Po (mW)	Po (2)	Po (mW)	Po (3)	Po (mW)	Po (4)	Po (mW)
	-36.83	0.000	-41.50	0.000	-48.33	0.000	-49.37	0.000
	-39.37	0.000	-44.00	0.000	-47.18	0.000	-51.17	0.000
	-34.82	0.000	-39.50	0.000	-48.30	0.000	-46.67	0.000
	-30.33	0.001	-34.83	0.000	-38.67	0.000	-42.33	0.000
	-19.00	0.013	-22.00	0.006	-25.12	0.003	-28.67	0.001
	-8.33	0.147	-11.33	0.074	-14.33	0.037	-18.00	0.016
	-1.62	0.689	-4.50	0.355	-7.50	0.178	-11.00	0.079
	0.33	1.079	-2.50	0.562	-5.50	0.282	-9.17	0.121
	1.33	1.358	-1.50	0.708	-4.62	0.345	-8.17	0.152
	1.00	1.259	-1.83	0.656	-5.00	0.316	-8.50	0.141
	2.50	1.778	-0.33	0.927	-3.67	0.430	-7.67	0.171
	1.44	1.393	-1.83	0.656	-5.00	0.316	-8.50	0.141
	0.83	1.211	-2.00	0.631	-5.12	0.308	-8.67	0.136
	-0.17	0.962	-2.83	0.521	-5.83	0.261	-9.33	0.117
	-2.50	0.562	-5.33	0.293	-8.50	0.141	-12.00	0.063
	-9.33	0.117	-12.33	0.059	-15.58	0.028	-18.83	0.013
	-20.83	0.008	-24.17	0.004	-27.00	0.002	-30.83	0.001
	-32.00	0.001	-36.00	0.000	-39.50	0.000	-42.62	0.000
	-36.67	0.000	-40.67	0.000	-44.50	0.000	-47.50	0.000
	-40.83	0.000	-45.17	0.000	-49.17	0.000	-52.17	0.000
	-38.00	0.000	-42.83	0.000	-46.67	0.000	-50.00	0.000
PTOTAL	-243	10.58	-416.97	5.45	-489.57	2.65	-562	1.15

Channel 5

5.3 GHz

UWI BAND	FINAL DATA		5.3 GHz Channel 5					8/23/99
BW(MHz)=	12.75		12.75		12.83		12.8	REV. C
5.3017	Po (1)	Po (mW)	Po (2)	Po (mW)	Po (3)	Po (mW)	Po (4)	Po (mW)
	-37.83	0.000	-47.37	0.000	-46.50	0.000	-51.33	0.000
	-37.00	0.000	-39.00	0.000	-40.87	0.000	-46.83	0.000
	-31.33	0.001	-32.00	0.001	-31.83	0.000	-39.83	0.000
	-30.17	0.001	-32.17	0.001	-34.67	0.000	-37.83	0.000
	-19.50	0.011	-22.62	0.005	-25.37	0.003	-30.00	0.001
	-9.00	0.126	-12.00	0.063	-15.00	0.032	-19.00	0.013
	-1.57	0.754	-4.17	0.383	-6.83	0.207	-14.17	0.038
	0.50	1.122	-2.62	0.547	-5.58	0.282	-9.67	0.108
	1.83	1.524	-1.33	0.736	-4.33	0.369	-8.33	0.147
	1.00	1.259	-2.17	0.607	-5.37	0.298	-7.50	0.178
	2.67	1.849	-0.50	0.891	-3.33	0.465	-7.17	0.192
	1.83	1.524	1.17	1.309	-4.33	0.369	-7.67	0.171
	1.50	1.413	-1.50	0.708	-4.62	0.345	-8.17	0.152
	0.67	1.167	-2.33	0.585	-5.17	0.304	-9.00	0.126
	-1.67	0.681	-4.83	0.330	-7.83	0.165	-12.33	0.058
	-7.33	0.185	-10.50	0.089	-13.50	0.045	-19.67	0.011
	-18.33	0.015	-22.00	0.006	-25.17	0.003	-28.50	0.001
	-26.12	0.002	-29.33	0.001	-34.17	0.000	-37.67	0.000
	-31.83	0.001	-33.83	0.000	-36.00	0.000	-40.50	0.000
	-36.83	0.000	-39.17	0.000	-41.50	0.000	-45.33	0.000
	-37.17	0.000	-47.17	0.000	-46.33	0.000	-51.33	0.000
PTOTAL	-317.28	11.64	-378.42	6.26	-441.81	2.88	-531.82	1.20

Channel 8

5.3 GHz

UWI BAND	FINAL DATA		5.3 GHz Channel 8					8/23/99
BW(MHz)=	13.75		14.00		14.00		14.00	REV. C
CENTER 5.3324	Po (1)	Po (mW)	Po (2)	Po (mW)	Po (3)	Po (mW)	Po (4)	Po (mW)
	[illegible]	0.000	[illegible]	0.000	[illegible]	0.000	[illegible]	0.000
	[illegible]	0.001	[illegible]	0.001	[illegible]	0.000	[illegible]	0.000
	[illegible]	0.004	[illegible]	0.001	[illegible]	0.001	[illegible]	0.001
	[illegible]	0.004	[illegible]	0.002	[illegible]	0.001	[illegible]	0.001
	[illegible]	0.015	[illegible]	0.009	[illegible]	0.004	[illegible]	0.002
	[illegible]	0.135	[illegible]	0.071	[illegible]	0.035	[illegible]	0.015
	[illegible]	0.469	[illegible]	0.455	[illegible]	0.242	[illegible]	0.104
	[illegible]	1.640	[illegible]	0.656	[illegible]	0.329	[illegible]	0.141
	[illegible]	1.452	[illegible]	0.754	[illegible]	0.303	[illegible]	0.158
	[illegible]	1.849	[illegible]	0.562	[illegible]	0.271	[illegible]	0.117
	[illegible]	1.000	[illegible]	0.631	[illegible]	0.316	[illegible]	0.117
	[illegible]	1.524	[illegible]	0.736	[illegible]	0.309	[illegible]	0.155
	[illegible]	1.309	[illegible]	0.736	[illegible]	0.355	[illegible]	0.152
	[illegible]	1.000	[illegible]	0.750	[illegible]	0.304	[illegible]	0.131
	[illegible]	0.462	[illegible]	0.697	[illegible]	0.157	[illegible]	0.058
	[illegible]	0.089	[illegible]	0.204	[illegible]	0.049	[illegible]	0.021
	[illegible]	0.015	[illegible]	0.037	[illegible]	0.004	[illegible]	0.002
	[illegible]	0.004	[illegible]	0.008	[illegible]	0.001	[illegible]	0.000
	[illegible]	0.002	[illegible]	0.002	[illegible]	0.001	[illegible]	0.000
	[illegible]	0.001	[illegible]	0.000	[illegible]	0.000	[illegible]	0.000
	[illegible]	0.000	[illegible]	0.000	[illegible]	0.000	[illegible]	0.000
PTOTAL	-267.28	10.39	-318.89	6.36	-411.21	2.82	-469.90	1.19

FREQUENCY TABLE

	5.3008	5.3017	5.3324		5.7358	5.7758	5.8073	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
CENTER	5.3008	5.3017	5.3324	CENTER FREQUENCY	5.7358	5.7758	5.8073	CENTER
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	

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